

511, 074

4/6/05

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
23 October 2003 (23.10.2003)

PCT

(10) International Publication Number  
WO 03/086262 A1(51) International Patent Classification<sup>7</sup>: A61G 9/00

(21) International Application Number: PCT/NO03/00113

(22) International Filing Date: 9 April 2003 (09.04.2003)

(25) Filing Language: Norwegian

(26) Publication Language: English

(30) Priority Data:  
20021675 10 April 2002 (10.04.2002) NO

(71) Applicant and

(72) Inventor: LIEBERMANN, Erik [NO/NO]; Svarttjonnheia 150, N-4645 Nodeland (NO).

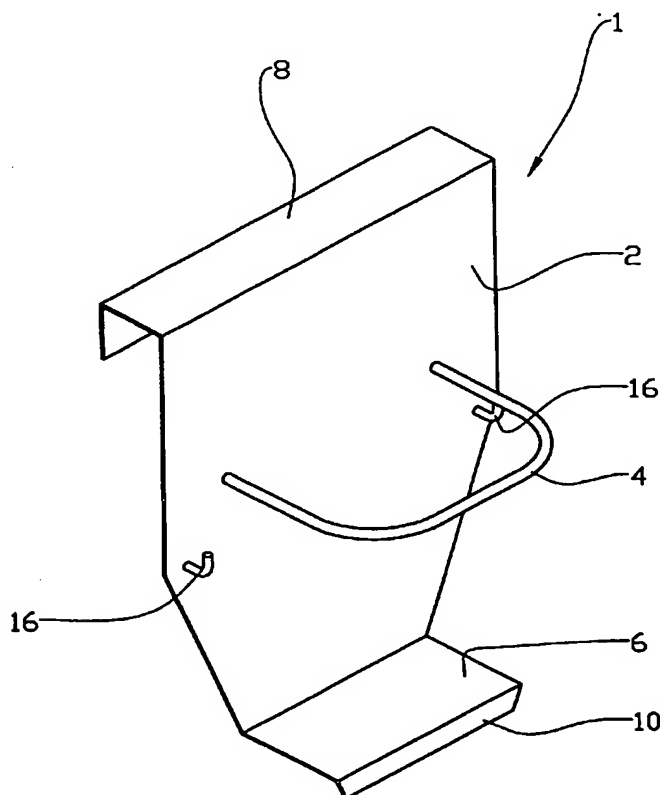
(74) Agent: HÅMSØ PATENTBYRÅ ANS; P.O. Box 171, N-4302 Sandnes (NO).

CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,Published:  
— with international search report

[Continued on next page]

(54) Title: A RECEPTACLE MOUNTING DEVICE



(57) Abstract: A device for a receptacle mounting (1) for a urine container (12, 18), wherein the receptacle mounting (1) is provided with a support section (2, 4) and a base section (6), the position of the base section (6) relative to the support sections (2, 4) being arranged to prevent a urine bottle from falling out of the support sections (2, 4) when the receptacle mounting (1) is in its operative position.

WO 03/086262 A1



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

#### A RECEPTACLE MOUNTING DEVICE

This invention concerns a mounting for a receptacle, and particularly a mounting designed to support receptacles of the type used especially for collecting urine from bedridden persons.

Collection of urine from a bedridden person is carried out by means of trays, urine bottles or collecting bags. The use of a tray normally implies relatively short collecting periods when an assistant is required, whilst when using a urine bottle, the bedridden person himself/herself may administer the use of the bottle. Connecting the bedridden person to a collecting bag, normally by means of a permanently inserted catheter, generally implies collection of urine over a relatively long period of time.

If the bedridden person himself/herself is to manage the use of a urine bottle, and oftentimes due to reduced mobility, spillage easily may result during subsequent storage of the urine bottle. Pending disposal, the urine bottle may be

placed on the bedside table after use. If someone unintentionally bumps into the urine bottle, spillage easily may occur due to the design of the urine bottle. Moreover, it is aesthetically inappropriate to leave an empty or part-full urine bottle sitting readily visible on, for example, the bedside table.

Urine collecting bags preferably must be placed with a liquid drop from the patient to the bag. It has proven advantageous to connect the bag to the mattress or the duvet of the bed. Safety pins, for example, are used for this purpose.

The object of the invention is to remedy the disadvantages of prior art.

The object is achieved in accordance with the invention and through the features disclosed in the description below and in the subsequent patent claims.

In the following, the term "up" and "down" etc. refer to the receptacle mounting when in its operative position.

A mounting for a urine bottle or a receptacle is provided with a support section and a base section, the position of the base section relative to the support section being arranged to prevent the urine bottle from falling out of the support section when the receptacle mounting is in its operative position. Preferably, the receptacle mounting is provided with hooks that correspond to recesses in a collecting bag for urine.

Adjacent its upper edge, the receptacle mounting is provided with a hook-resembling section that is arranged to connect the receptacle mounting to a bed, a bedside table or another suitable device.

By placing the receptacle mounting containing a urine bottle in a suitable place within reach for the bedridden person, the person may use the urine bottle when needed and then put it back into the receptacle mounting, in which it assumes a substantially vertical position. The risk of spillage from a part-full urine bottle thereby is significantly reduced. Relative to the bedside table, the urine bottle thus also may be placed in a more secluded place.

When using a collecting bag, and by means of the bag recesses, the bag may easily be connected to the corresponding hooks of the receptacle mounting. By using the receptacle mounting, the collecting bag may be placed in an area in which it may not be easily and unintentionally moved or damaged.

In the following, a non-limiting example of a preferred embodiment is described and illustrated in the accompanying drawings, in which:

Figure 1 depicts a perspective view of a receptacle mounting;

Figure 2 depicts a view of a urine bottle placed in the receptacle mounting;

Figure 3 depicts the same as Fig. 2, but here the urine bottle is placed aslant; and

Figure 4 depicts a collecting bag suspended from the receptacle mounting.

In the drawings, reference number 1 denotes a receptacle mounting, comprising a first support section 2 in the form of a back panel, a second support section 4 in the form of a hoop, a base section 6 in the form of a plate, and a hook-resembling section 8 at its upper edge.

In this preferred embodiment, the first support section 2, the base section 6 and the hook-resembling section 8 form a plate construction wherein said sections are made by means of cutting and buckling, for example. A fold 10 at the outward-projecting side edge of the base section 6 is arranged to prevent items from being cut when contacting the base section 6. Preferably, the receptacle mounting 1 is made from a stainless material.

The second support section 4, here in the form of a U-shaped hoop, is fixedly connected to the first support section 2 at a suitable distance above the base section 6. The depth of the hoop-shape and the spacing between the legs of the hoop are adapted to a standard urine bottle 12, allowing the lower end portion of the urine bottle 12, when the urine bottle 12 is placed with its upwards-aiming opening in the receptacle mounting 1, to bear against the base section 6, cf. Fig. 2. The spacing between the legs of the hoop, however, is not large enough to allow the urine bottle 12 to be rotated out of engagement with the base section 6, cf. Fig. 3.

At a distance immediately below the second support section 4, two hooks 16 are connected to the first support section 2.

The mutual spacing between the two hooks 16 is adapted to, and corresponds with, attachment recesses in a collecting bag 18.

The collecting bag 18 may be suspended from the hooks 16, cf. Fig. 4, whereupon it is filled and then removed from the receptacle mounting 1.

Use of the receptacle mounting 1 may significantly prevent urine spillage. Concerning a collecting bag 18, it may also result in improved operational safety, inasmuch as the collecting bag 18 is exposed to less unintentional action.

## C l a i m s

1. A device for a receptacle mounting (1) for a urine container (12, 18), characterised in that the receptacle mounting (1) is provided with a support section (2, 4) and a base section (6), the position of the base section (6) relative to the support sections (2, 4) being arranged to prevent a urine bottle from falling out of the support sections (2, 4) when the receptacle mounting (1) is in its operative position.
2. A device according to claim 1, characterised in that the receptacle mounting (1) is provided with hooks (16) corresponding to recesses in a urine collecting bag (18).
3. A device according to one or more of the preceding claims, characterised in that the receptacle mounting (1), at its upper edge portion, is provided with a hook-resembling section (8) arranged to connect the receptacle mounting (1) to a bed, a bedside table or another suitable fixing device.
4. A device according to one or more of the preceding claims, characterised in that at least one of the support sections (2, 4) of the receptacle mounting (1) constitutes a hoop (4).
5. A device according to one or more of the preceding claims, characterised in that the receptacle mounting (1) is provided with a fold (10).



1/4

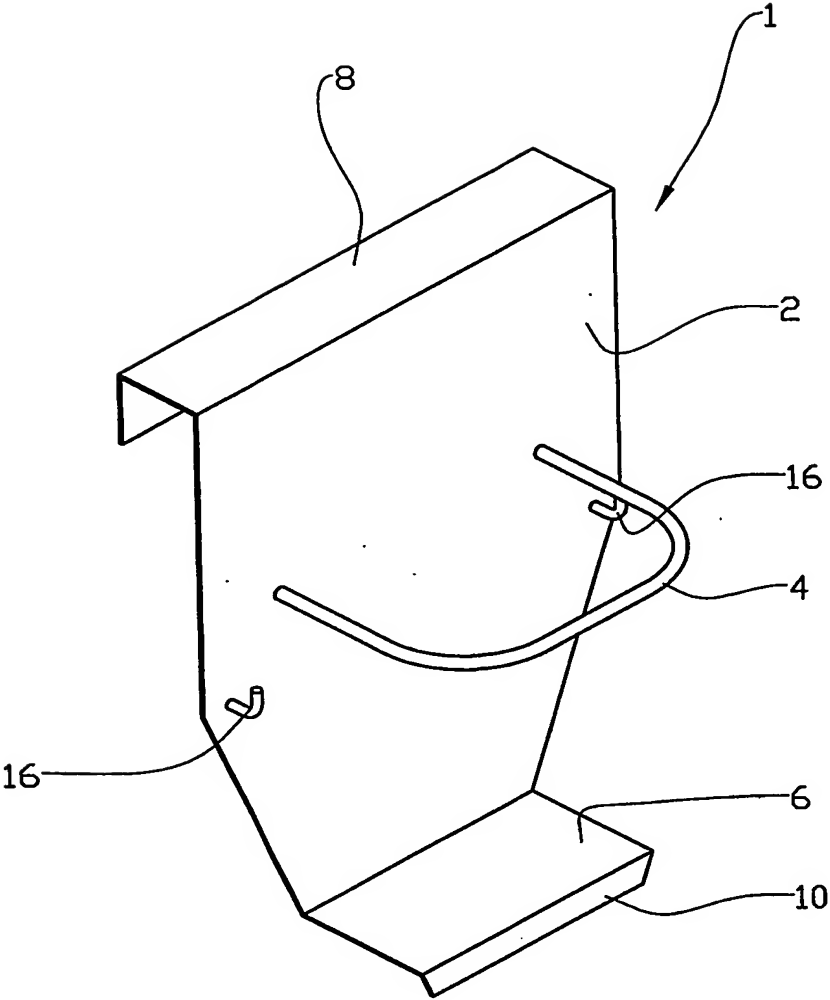


Fig. 1

2/4

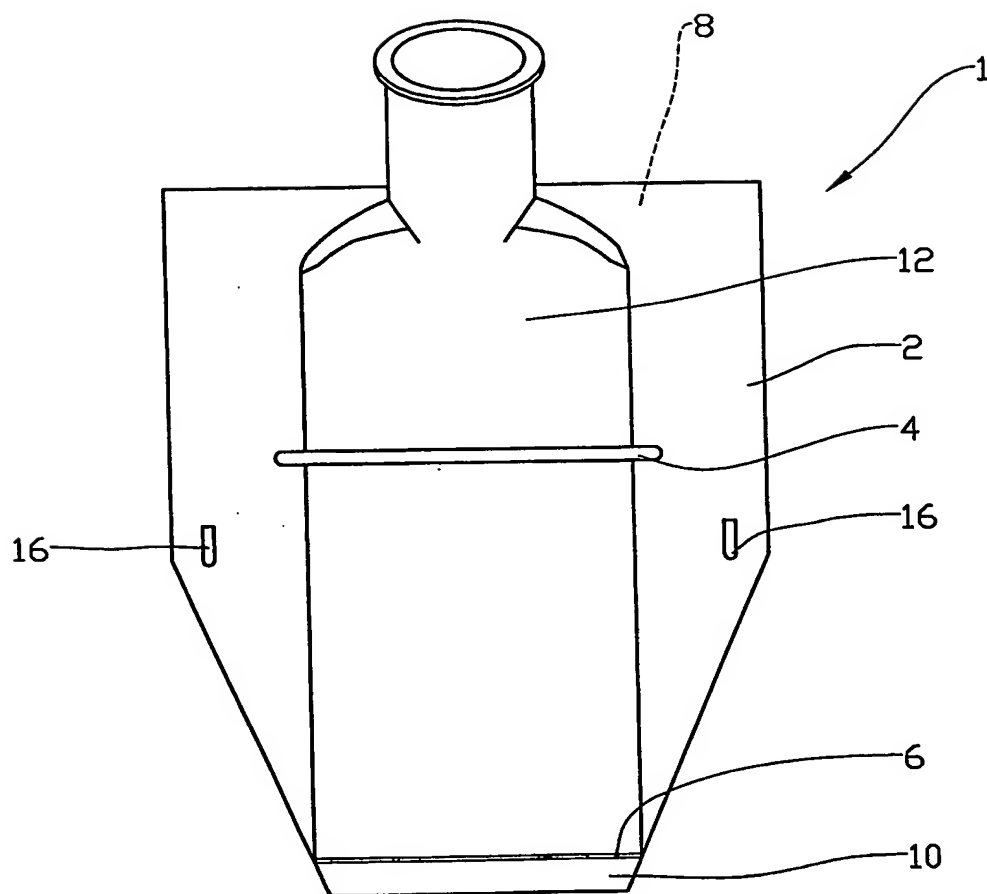


Fig. 2

3/4

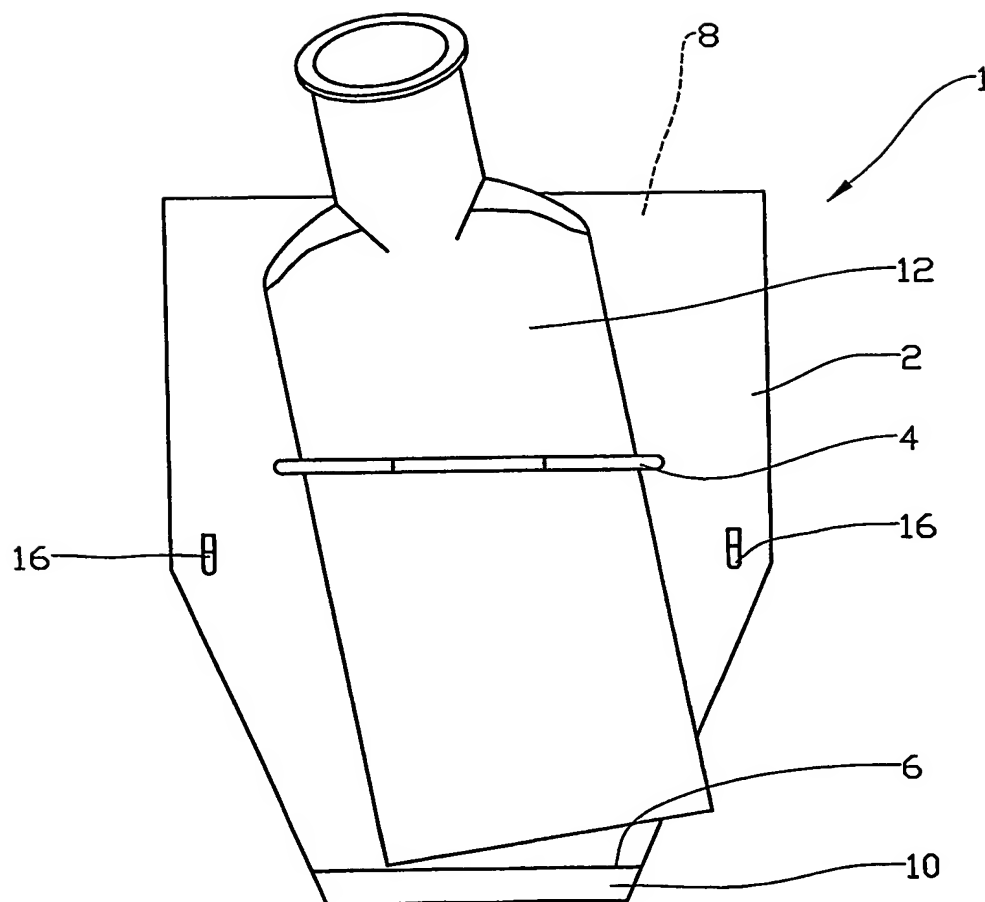


Fig. 3

4/4

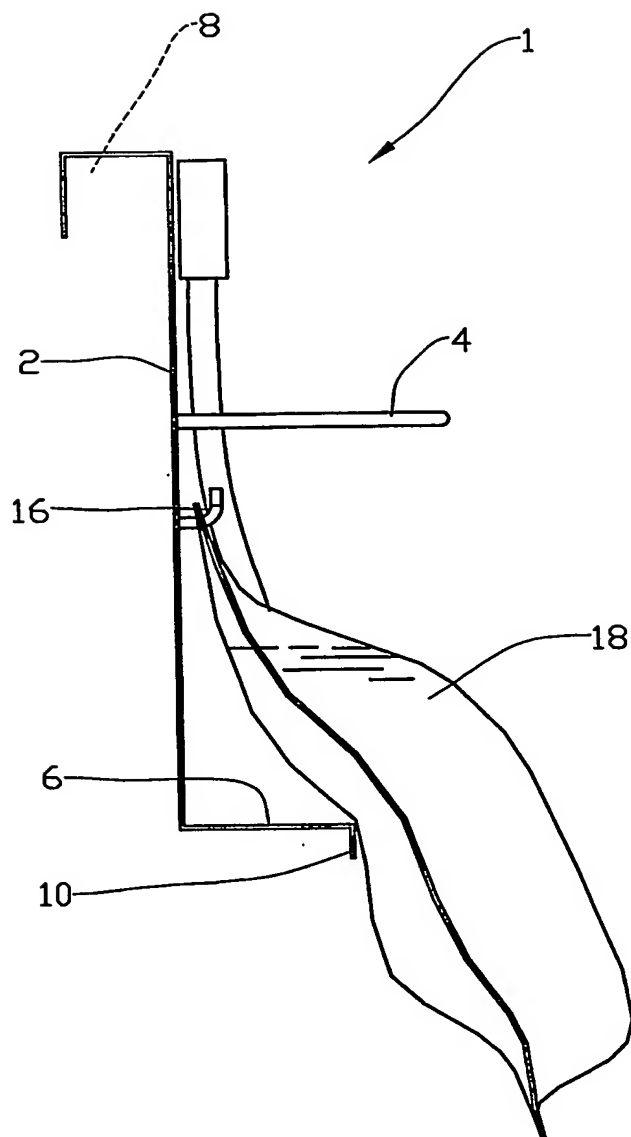


Fig. 4

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 03/00113

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61G 9/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5626318 A (CONRAD H. BOETTGER ET AL), 6 May 1997 (06.05.97), figure 5, abstract --	1-5
X	DE 29616032 U1 (DISCHER SANITÄTSTECHNIK GMBH), 5 March 1998 (05.03.98), figure 1, claim 1 --	1-5
X	FR 2816829 A1 (HILL ROM SAS), 24 May 2002 (24.05.02), figure 2, abstract --	1-5
X	FR 2289165 A (ASTRA-SJUCO AB), 28 May 1976 (28.05.76), figure 1, claim 1 --	1-5

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

- |   |  |
|---|--|
| * Special categories of cited documents:  | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "A" document defining the general state of the art which is not considered to be of particular relevance  | "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "E" earlier application or patent but published on or after the international filing date   | "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family  |
| "O" document referring to an oral disclosure, use, exhibition or other means  |  |
| "P" document published prior to the international filing date but later than the priority date claimed  |  |

Date of the actual completion of the international search

12 June 2003

Date of mailing of the international search report

23-06-2003

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

Hélène Erikson/Els  
Telephone No. +46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 03/00113

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4573653 A (CONRAD H. BOETTGER), 4 March 1986 (04.03.86), abstract, fig. --	1-5
A	US 4295619 A (RALPH KULIN ET AL), 20 October 1981 (20.10.81), abstract, fig. -- -----	1-5

# INTERNATIONAL SEARCH REPORT

Information on patent family members

29/04/03

International application No.

PCT/NO 03/00113

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
US	5626318	A	06/05/97	NONE	
DE	29616032	U1	05/03/98	NONE	
FR	2816829	A1	24/05/02	NONE	
FR	2289165	A	28/05/76	NONE	
US	4573653	A	04/03/86	NONE	
US	4295619	A	20/10/81	CA 1131588 A	14/09/82